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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/555,625	06/01/2000	Makoto Sasaki	13629	8184	
7590	04/25/2002				
Leopold Presser			EXAMINER		
Scully Scott Murp 400 Garden City F	Plaza		HU, SHOU	HU, SHOUXIANG	
Garden City, NY 11530			ART UNIT	PAPER NUMBER	
			2811	2811	
			DATE MAILED: 04/25/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

	•	Application No.	Applicant(s)		
Office Action Summary		09/555,625	SASAKI ET AL.		
		Examiner	Art Unit		
		Shouxiang Hu	2811		
- The MAILING DATE of this communication appears on the cover sheet with the correspondence address -					
Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed					
after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status	December to accomplished as Od A	Annah 2000			
1)🖂	Responsive to communication(s) filed on <u>01 N</u>				
2a)□	,	is action is non-final.			
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) Claim(s) 1-20 is/are pending in the application.					
4a) Of the above claim(s) <u>2-10 and 12-19</u> is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1,11 and 20</u> is/are rejected.					
7)	Claim(s) is/are objected to.				
8) Claim(s) are subject to restriction and/or election requirement.					
	on Papers				
9) The specification is objected to by the Examiner.					
10) ☐ The drawing(s) filed on <u>01 June 2000</u> is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.					
If approved, corrected drawings are required in reply to this Office action.					
12) ☐ The oath or declaration is objected to by the Examiner.					
Priority under 35 U.S.C. §§ 119 and 120					
13)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
	☑ All b)☐ Some * c)☐ None of:	, process, and a control 3	(-) (-) (-)		
,-	1. Certified copies of the priority documents	s have been received.			
	2. Certified copies of the priority documents have been received in Application No				
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).					
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.					
Attachment(s)					
			ry (PTO-413) Paper No(s) I Patent Application (PTO-152)		

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DETAILED ACTION

Election/Restriction

Claims 2-10 and 12-19 are withdrawn from further consideration pursuant to 37
 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable

generic or linking claim. Election was made without traverse in Paper No.6 and 8.

Drawings

2. Figures 33 and 34 are objected to as they should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the

drawings will not be held in abeyance.

Claim Objections

3. Claim 20 is objected to because of the following informalities:

The term of "to any one of claims 11-13" should read as --to claim 11--, as claims 12 and 13 are not identified as readable on the species elected by Applicant in Paper

No. 8.

Appropriate correction is required.

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Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Honma et al. ("Honma"; JP 53-116089, 10/11/1978; of record).

Honma discloses a wiring (Fig. 2, and see the English Abstract), comprising a Cu layer (24) surrounded by a coating film made of Ti (25).

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 11 and 20, insofar as being supported by Applicant's elected species, are rejected under 35 U.S.C. 103(a) as being unpatentable over Wakai et al. ("Wakai"; 5,166,085) in view of Honma et al. ("Honma"; JP 53-116089, 10/11/1978; of record).

Wakai discloses a TFT substrate (Figs. 3-6; also see col. 5, lines 36-38), comprising a wiring formed of a Cu layer (102).

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Although Wakai does not expressly disclose that the wiring can have a Ti coating film surrounding the Cu layer, Honma, whose disclosure is discussed as applied to claim 1 above, teaches (Fig. 2) to form a wiring comprising a Cu layer (24) surrounded by a coating film made of Ti (25) for improving the adhesion around the Cu layer (see the English abstract).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the Ti-coating of Honma into the wiring of Wakai, so that a TFT substrate with improved adhesion around the wiring would be achieved.

Regarding claim 20, the LCD of Wakai (see Fig. 5) comprises a TFT substrate (112) in a pair of opposing substrates (112 and 116)

Conclusion

8. Papers related to this application may be submitted to Technology center (TC) 2800 by facsimile transmission. Papers should be faxed to TC 2800 via the TC 2800 Fax center located in Crystal Plaza 4, room 4-C23. The faxing of such papers must conform with the notice published in the Official Gazette, 1096 OG 30 (November 15, 1989). The Group 2811 Fax Center number is (703) 308-7722 or 308-7724. The Group 2811 Fax Center is to be used only for papers related to Group 2811 applications.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Shouxiang Hu** whose telephone number is **(703) 306-**

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5729. The examiner can normally be reached on Monday through Thursday from 7:30

AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, *Tom Thomas*, can be reached on (703) 308-2772. The appropriate fax phone number for the organization where this application or proceeding is assigned is (703) 308-7724.

Any inquiry of a general nature or relating to the status of this application should be directed to the **Technology Center Receptionists** whose telephone number is **(703) 308-0956**.

Shouxiang Hu

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April 19, 2000

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